

Claims

1. A laundry washing machine, in particular a front loading washing machine, having a washing agent dispenser (10) which comprises at least a movable body (26A, 26B, 40) defining a space or compartment for containing a dose of a respective washing agent, said space having a loading mouth (27, 41) open according to a respective first axis (Y), a housing (11) for said movable body (26A, 26B, 40) and means (18, 24, 25) for carrying into said space a flow of liquid (IN) able to withdraw said washing agent, said movable body (26A, 26B, 40) being mounted in said housing (11) in such a way as to be able to assume a first position, for the manual admission of said washing agent into said space through said loading mouth (27, 41), and a second position, for the withdrawal of said washing agent from said space by means of said flow of liquid (IN), wherein said movable body (26A, 26B, 40) is pivotally supported in said housing (11) to move angularly from said first to said second position and vice versa around a second axis (X) that is substantially perpendicular or anyway transverse relative to said first axis (Y) of said loading mouth (27, 41).

2. A laundry washing machine as claimed in claim 1, wherein said second axis (X) is substantially perpendicular or anyway transverse relative to an axis (Z) around which a drum of the machine is capable of rotating.

3. A laundry washing machine as claimed in claim 1, wherein said second axis (X) is substantially horizontal.

4. A laundry washing machine as claimed in claim 1, further comprising actuating means (24, 25, 33, 34, 45, 46) operative for determining the movement of said body (26A, 26B, 40) from said first to said second position

by means of said flow of liquid (IN).

5 5. A laundry washing machine as claimed in claim 4, wherein said actuating means (24, 25, 33, 34, 45, 46) comprise at least a conduit (24, 25) for carrying said flow of liquid (IN) and a channel (33, 45) of said movable body (26A, 26B, 40) operatively coupled in sliding fashion to said conduit (24, 25).

10 6. A laundry washing machine as claimed in claim 5, wherein said conduit (24, 25) is operatively inserted in said channel (33, 45), or vice versa.

 7. A laundry washing machine as claimed in claim 5, wherein each of said conduit (24, 25) and channel (33, 45) has at least an arched segment or stretch, in particular having a development of about 90°.

15 8. A laundry washing machine as claimed in claim 5, wherein said channel (33, 45) comprises an inlet and said actuating means (24, 25, 33, 34, 45, 46) comprise an outlet port (34, 46) of said channel (33, 45) proximate to said inlet, said outlet port (34, 46) being capable of placing in communication the channel (33, 45) with said space.

25 9. A laundry washing machine as claimed in claim 8, wherein, in said first position of said movable body (26A, 26B, 40), said outlet port (34, 46) is substantially obstructed by means of a surface of said conduit (24, 25) and in that, in said second position of said movable body (26A, 26B, 40), said outlet port (34, 46) is substantially freed from said surface.

30 10. A laundry washing machine as claimed in claim 1, wherein said movable body (26A, 26B, 40) has at least a passage (28, 42) for the outflow from said compartment of said washing agent together with the liquid of said flow (IN), where in particular said outlet passage (28, 42) extends axially in a substantially perpendicular direction relative to said

35

first and second axis (Y, X).

11. A laundry washing machine as claimed in claim 1, wherein said housing comprises a casing (11) in which said movable body (26A, 26B, 40) is substantially enclosed, said casing (11) having a respective upper opening (12, 13, 14), in said first position, said loading mouth (27, 41) of said movable body (26A, 26B, 40) being substantially aligned to said upper opening (12, 13, 14).

12. A laundry washing machine as claimed in claim 11, wherein said casing (11) is mounted in proximity to the lower edge of an opening present in a front wall (2A) of a cabinet (2) of the machine (1), in such a way as to project towards the interior of said machine (1).

13. A laundry washing machine as claimed in claim 11, wherein said casing (11) has one or more slits (19) for the outflow of said washing agent together with the liquid of said flow (IN).

14. A laundry washing machine as claimed in claim 11, wherein said casing (11) comprises an upper half-shell (11A) and a lower half-shell (11B), being mutually joined, from the bottom wall of the lower half-shell (11B) rising support means (20, 21, 22) for said movable body (26A, 26B, 40).

15. A laundry washing machine as claimed in claim 14, wherein said movable body (26A, 26B, 40) has, at least at one longitudinal end, a respective pivot (31, 32, 43, 44) co-operating with said support means (20, 21, 22).

16. A laundry washing machine as claimed in claim 1, further comprising stop means (35, 47, 50) for arresting the angular movement of said movable body (26A, 26B, 40) from said second to said first position.

17. A laundry washing machine as claimed in claim 11, wherein a lid (60) is movably mounted between said

movable body (26A, 26B, 40) and said casing (11), which lid is capable of assuming an inoperative position, in which said upper opening (12, 13, 14) is open, and an operative position, in which said upper opening (12, 13, 14) is obstructed.

18. A laundry washing machine as claimed in claim 17, further comprising transmission means (36, 48) to transfer to said movable body (26A, 26B, 40) a movement imparted manually to said lid (60), in order to move said movable body (26A, 26B, 40) from said second to said first position.

19. A laundry washing machine as claimed in claim 17, having a door (3), wherein actuating means (15, 16, 64) are provided to transfer to said lid (60) a movement imparted manually to said door (3), to move said lid (60) from said inoperative position to said operative position.

20. A laundry washing machine as claimed in claim 17, further comprising a bistable system (70) operative to maintain said lid (60) in the respective inoperative and operative positions.

21. A laundry washing machine as claimed in claim 1, wherein said movable body (26A, 26B, 40) lacks siphon means.

22. A laundry washing machine as claimed in claim 1, wherein said dispenser (10) comprises two or more of said movable bodies (26A, 26B, 40).

23. A dispenser of washing agents for a laundry washing machine, the dispenser (10) comprising at least a movable body (26A, 26B, 40) defining a space or compartment to contain a dose of a respective washing agent, said space having a loading mouth (27, 41) opened according to a respective first axis (Y), a housing (11) for said movable body (26A, 26B, 40) and means (18, 24, 25) to carry into said space a flow of

liquid (IN) capable of withdrawing said washing agent, said movable body (26A, 26B, 40) being mounted in said housing (11) in such a way as to be able to assume a first position, for the manual admission of said washing agent in said space through said loading mouth (27, 41), and a second position, for the withdrawal of said washing agent from said space by means of said flow of liquid (IN), wherein said movable body (26A, 26B, 40) is pivotally supported in said housing (11) to move angularly from said first to said second position and vice versa around a second axis (X) substantially perpendicular or otherwise transverse relative to said first axis of said loading mouth (27, 41).

24. A household washing machines, comprising a dispenser of washing agents as claimed in claim 23.

25. A dispenser of washing agents for a washing machine, in particular a domestic washing machine, the dispenser (10) comprising at least a movable body (26A, 26B, 40) defining a space or compartment for containing a dose of a respective washing agent, said compartment having a loading mouth (27, 41) opened according to a respective first axis (Y), a housing (11) for said movable body (26A, 26B, 40) and means (18, 24, 25) for carrying into said space a flow of liquid (IN) capable of withdrawing said washing agent, said movable body (26A, 26B, 40) being mounted in said housing (11) in such a way as to be able to assume a first position, for the manual admission of said washing agent into said space through said loading mouth (27, 41), and a second position, for the withdrawal of said washing agent from said compartment by means of said flow of liquid (IN), wherein it further comprises actuating means (24, 25, 33, 34, 45, 46) operative to produce the displacement of said body (26A, 26B, 40) from said first to said second position by means of said flow of

liquid (IN).

26. A dispenser as claimed in claim 25, wherein
said movable body (26A, 26B, 40) is pivotally supported
in said housing (11) to move angularly from said first
5 to said second position and vice versa around a second
axis (X) substantially perpendicular or otherwise
transverse relative to said first axis of said loading
mouth (27, 41).

27. A dispenser as claimed in claim 25, wherein
10 said second axis (X) is substantially perpendicular or
otherwise transverse relative to an axis (Z) around
which a drum of the machine is capable of rotating.

28. A dispenser as claimed in claim 26, wherein
said second axis (X) is substantially horizontal.

15 29. A household washing machines, comprising a
dispenser of washing agents as claimed in claim 25.